# Learn Echidna: Introduction to Invariant Tests

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In this video, I am introducing Echidna, a powerful tool for testing smart contracts for vulnerabilities. Echidna is a property-based fuzzer, which means it generates random inputs to try to break the contract.

This is a more effective way to test smart contracts than traditional unit testing, which can miss vulnerabilities that are only triggered by specific inputs.

Echidna can be used to test a variety of smart contract features, including invariants, access control, and state machines. It is a versatile tool that can be used to test a wide range of smart contracts.

If you are interested in learning more about Echidna, I recommend watching the full video.

Here is a summary of the video in a few points:

1. Starts with a tutorial on how to use Echidna, a property-based fuzzer, to test smart contracts for invariants.

2. Then starts by introducing Echidna and explaining what invariants are.

3. It walks through a simple example of how to use Echidna to test a token contract.

4. It concludes with a discussion of how to run Echidna tests.